

## Portable MP3-CD Player

Audio

EXP320

EXP321

EXP322

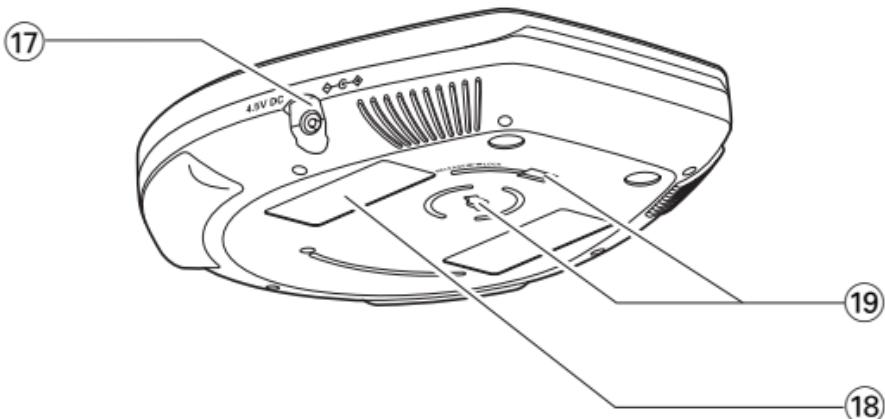
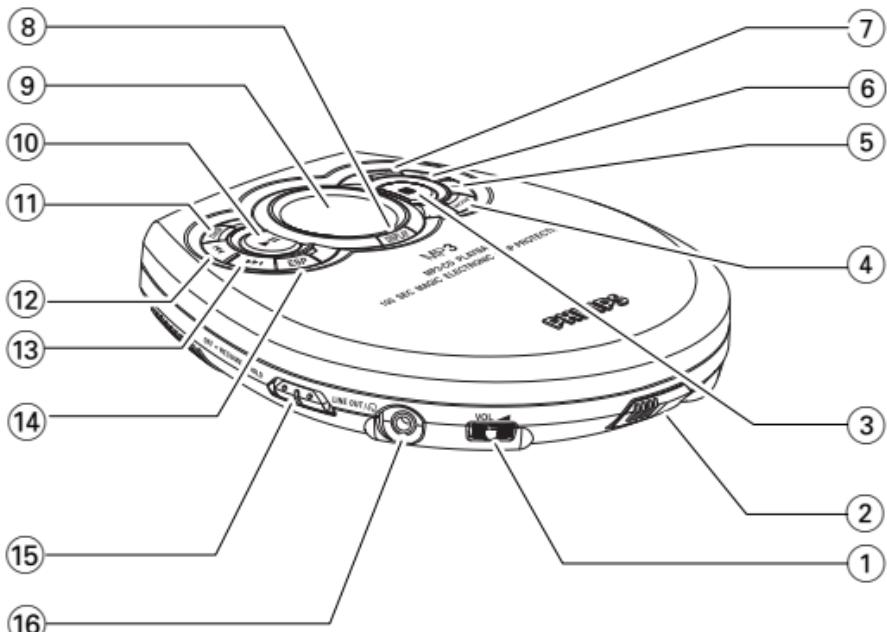
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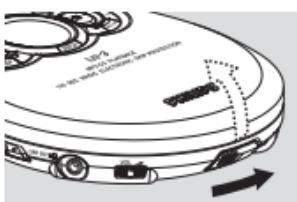
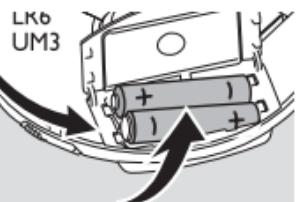
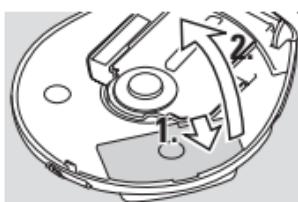
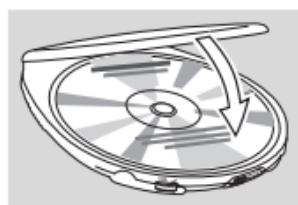
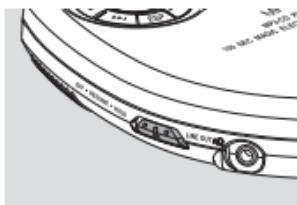
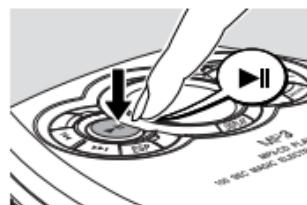
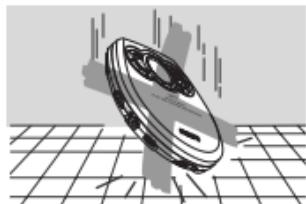
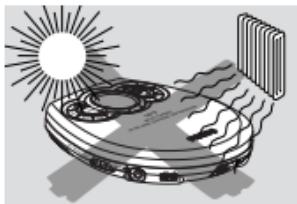
EXP325



EXPANIUM

PHILIPS



**1 OPEN****2 AA****3 CD****4 CD****5 HOLD → OFF****6 PLAY ►II****7 VOL ▲****!!!**

## **CAUTION**

*Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.*

## **ATTENTION**

*L'utilisation de commandes ou de réglages ou l'exécution de procédures autres que celles décrites dans le présent manuel risque d'entraîner une exposition à un rayonnement dangereux ou d'avoir d'autres conséquences sur la sécurité.*

## **PRECAUCIÓN**

*La utilización de controles o ajustes y la realización de procedimientos distintos de los contenidos en este manual pueden provocar la exposición a radiaciones peligrosas y a otros peligros.*

## **WAARSCHUWING**

*Gebruik van bedieningselementen of uitvoering van procedures buiten het hierin beschrevene kan leiden tot gevaarlijke stralingsblootstelling of een ander onveilig systeembedrijf.*

## Controls ( see figure 1 )

- ① VOL  adjusts the volume
- ②  OPEN  opens the CD lid
- ③  stops playback and switches the set off
- ④ MODE selects playback options such as **shuffle** and **repeat**
- ⑤  MP3-CD only: select the previous album or fast track backward
- ⑥  MP3-CD only: select the next album or fast track forward
- ⑦ PROG programs tracks and lets you review the program
- ⑧ DISPLAY selects the track and album information for MP3-CDs
- ⑨  display
- ⑩  switches the set on, starts playback and interrupts playback
- ⑪ DBB selects the bass adjustment: press and hold for 2 seconds or more for acoustic feedback on / off adjustment
- ⑫  skips forward and searches forward
- ⑬  skips backward and searches backward
- ⑭ **ESP** **ELECTRONIC SKIP PROTECTION** prevents music interruptions caused by shocks
- ⑮ OFF switches RESUME and HOLD off
- RESUME stores the last position played
- HOLD locks all buttons
- ⑯ LINE OUT/ 3.5 mm line out to connect
  - the headphones
  - this set to the audio input of your stereo equipment
- ⑰ 4.5V DC to connect the external power supply
- ⑱  typeplate
- ⑲  belt clip holder

## Maintenance

- Do not touch the lens **A** of the set.
- Do not expose the set, battery or discs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).
- The lens may cloud over when the set is suddenly moved from cold to warm surroundings. Playing is not possible then. Leave the set in a warm environment until the moisture evaporates.
- Active mobile phones in the vicinity of this set may cause malfunctions.
- Avoid dropping the set as this may cause damage.
- Clean the set with a soft, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.
- To clean a disc, wipe it in a straight line from the centre towards the edge using a soft, lint-free cloth. Cleaning agents may damage the disc.



## Environmental information

- All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).
- Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted battery and old equipment.

## MP3 music files

The music compression technology MP3 (MPEG Audio Layer 3) reduce the size of digital data of an audio CD significantly while maintaining CD-like sound quality. With MP3 you can record up to 10 hours of CD-like music on a single CD-ROM.

## How to get music files

Either download legal music files from the Internet to your computer hard disk or create them from your own audio CDs. For this, insert an audio CD into your computer's CD-ROM drive and convert the music using an appropriate encoder software. To achieve a good sound quality, a bit rate of 128 kbps or higher is recommended for MP3 music files.

## MP3 music files

## How to organize music files

In order to easily handle the large number of music files on a CD-ROM, you can organize them in folders ("albums").

The tracks of an album will be played in alphabetical order. If you want to arrange them in a certain order, let the file names start with numbers. For example:

- 001-ONEWORLD.MP3**
- 002-FIRESTARTER.MP3**
- 003-DEEPM3**

The albums will be arranged in alphabetical order. If albums are located in an album, they will be played after this album. Albums without MP3 files will be skipped.

If there are MP3 files which you did not put into an album, you will find them in the album **Various** with album number **0**. **Various** is the first album that will be played.

## How to make a CD-ROM with MP3

Use your computer's CD burner to record ("burn") the music files from your hard disc on a CD-ROM. Use either ISO 9660 disc format or UDF. Some CD burner software like e. g. "DirectCD" support the UDF format.

Make sure that the file names of the MP3 files end with .mp3.

## GENERAL INFORMATION / POWER SUPPLY

### Supported formats

This set supports:

- Disc format: ISO 9660, Joliet, Multisession, UDF, Enhanced Music CD, Mixed Mode CD
- MP3 bit rate: 32–320 kbps and variable bit rate
- Total number of music files and albums : around 400

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## POWER SUPPLY / BASIC FUNCTIONS

### Mains adapter (supplied or optionally available)

Only use the AY 3170 mains adapter (4.5 V/300 mA direct current, positive pole to the center pin). Any other product may damage the set.



- 1 Make sure the local voltage corresponds to the adapter's voltage. If your mains adapter is equipped with a voltage selector, set this selector to the local mains voltage if necessary.

- 2 Connect the mains adapter to 4.5V DC on the set and to the wall outlet.

*Note: Always disconnect the adapter if you are not using it.*

### Headphones (SBC HE205 or HL351)

- Connect the supplied headphones to LINE OUT/.

*Note: LINE OUT/ can also be used for connecting this set to your HiFi system. Adjust the volume and sound on both the CD player and your HiFi system.*



#### IMPORTANT!

##### • Hearing safety :

Do not play your headphones at a high volume. Hearing experts advise that continuous use at high volume can permanently damage your hearing.

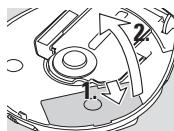
##### • Traffic safety :

Do not use headphones while driving a vehicle. It may create a hazard and it is illegal in many countries. Even if your headphones are an open-air type designed to let you hear outside sounds, do not turn up the volume so high that you cannot hear what is going on around you.

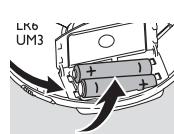
### Batteries (supplied or optionally available)

#### Inserting batteries

- Open the battery compartment and insert either 2 normal or alkaline batteries type AA (LR6, UM3).



*Old and new or different types of batteries should not be combined.*



#### Indication of empty batteries

- Replace the battery or connect the mains adapter as soon as blinks and **Replace batteries** is scrolled.

*Remove batteries if they are empty or if the unit will not be used for a long time.*



**Batteries contain chemical substances, so they should be disposed of properly.**

### Playing a disc

With this set you can play

- all pre-recorded audio CDs
- all finalized audio CDRs and CDRWs
- MP3-CDs (CD-ROMs with MP3 files)



- 1 Push the **••••OPEN** slider to open the CD lid.

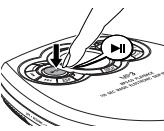
- 2 Insert a disc, printed side up, by pressing gently on the disc's centre so that it fits onto the hub. Close the lid by pressing it down.

- 3 Press **▶▶** to start playback.

**→EXPLANIUM** and **Reading CD** are displayed briefly. Playback starts. The current track number and the elapsed playing time are displayed. For a MP3-track, the album number is also displayed and the file-name is scrolled once.

- 4 Press **■** to stop playback.

**→** The total number of tracks the number of albums on an MP3-CD and the total playing time (of an audio disc only) are displayed.



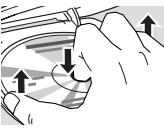
- 5 To remove the disc, hold it by its edge and press the hub gently while lifting the disc.



- 6 Press **■** again to switch off the player.

#### Notes:

- After pressing **▶▶** it may take some time until the first MP3 track is played.
- The display clears automatically after 20 seconds if no controls are operated in the stop mode.



## BASIC FUNCTIONS / FEATURES

### Pause

- 1 Press **▶II** to interrupt playback.  
→ Elapsed playback time freezes and flashes.
- 2 To resume playback press **▶II** again.



### Display information (for MP3 tracks only)

- 1 Press **DISPLAY** repeatedly during playback to select the information to be displayed:

- **Filename:** the track's file name,
- **Album:** the album's folder name,
- **Artist:** the artist's name (if this ID3 tag information is available),
- **Title:** the track's title (if this ID3 tag information is available),
- the elapsed playing time.



- 2 The selected information is scrolled once. The album number and track number are displayed.

#### Notes:

The ID3 tag is part of an MP3 file and contains various track information such as the track's title or the artist's name. Complete the ID3 tag information with your MP3 encoder software before burning the MP3-CD.

## Volume and bass

### Volume adjustment

- 1 Adjust the volume by using **VOL** .



### Bass adjustment

- 1 Press **DBB** once or more to select the bass enhancement options:
  - **①** moderate bass enhancement is activated.
  - **②** strong bass enhancement is activated.



- 2 Press **DBB** again to switch off the bass enhancement options.

→ **①** or **②** disappears



## Beep

A beep confirms that you have pressed a button or that the batteries are empty.

- During music mode only keep **DBB** pressed for 4 seconds to switch beep either on or off:
  - **Beep** is display. Beep is switched on.
  - **No beep** is display. Beep is switched off.



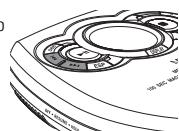
## BASIC FUNCTIONS / FEATURES

### Selecting and searching CD only

#### Selecting a track during playback

- 1 Briefly press **◀** or **▶** once or several times to skip to the beginning of the current, previous or subsequent track.

→ Playback continues with the selected track.



#### Searching for a passage during playback

- 1 Keep **◀** or **▶** pressed to find a particular passage in a backward or forward direction.
  - Searching is started and playback continues at a low volume. For CD audio tracks the search speeds up.
- 2 Release the button at the desired passage.
  - Normal playback continues.

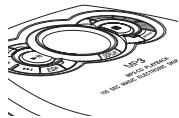
### Selecting album and tracks on MP3-CDs

#### Selecting an album during playback

- 1 Briefly press **+** or **-** once or several times to skip to the first track of the previous or subsequent album.
  - The first track of the selected album is played.

#### Selecting a track during playback

- 1 Keep **+** or **-** pressed to skip quickly to previous or subsequent MP3 tracks.
  - Skipping starts and speeds up.
- 2 Release the button at the desired track.
  - Playback continues with the selected track.



*Note: To skip from track to track at low speed, use **◀** or **▶**.*

## Programming track numbers

You can select up to 50 tracks to play in a program. A single track may be stored more than once in the program.

- 1 While playback is stopped, select a track with **◀** or **▶**.
- 2 Press **PROG** to store the track.
  - The number of stored tracks are displayed.
- 3 Select and store all desired tracks in this way.
- 4 Press **▶II** to start playback of your selected tracks.
  - **▼** appears above **prog**
- You can review the programme by pressing **PROG** for more than 3 seconds.
  - The display shows all the stored tracks in sequence.



#### Notes:

- If you press **PROG** and there is no track selected, **Select track or Select file** is displayed.
- If you try to review without first programming, **No program** is displayed.
- If you try to store more than 50 tracks, **Program full** is displayed.



### Clearing the programme

- While playback is stopped, press **■** to clear program.
  - **Program cleared** is displayed once, **program** goes off, and the programme is cleared.

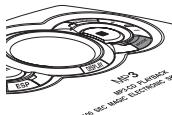
*Notes: The programme will also be cleared if the power supply is interrupted, or if the CD-player lid is opened, or if the set switched off automatically.*

## FEATURES

### Playing tracks repeatedly or in random order-MODE

1 Press MODE repeatedly during playback to select either:

- **shuffle all** : All tracks of the disc are played in random order once.
- **shuffle repeat all** : All tracks of the disc are played repeatedly in random order.
- **repeat** : The current track is played repeatedly.
- **repeat all** : The entire disc is played repeatedly.
- **shuffle album** (with MP3-CDs only):  
All tracks of the current album are played in random order once.
- **shuffle repeat album** (with MP3-CDs only):  
All tracks of the current album are played repeatedly in random order.
- **repeat album** (with MP3-CDs only):  
All tracks of the current album are played repeatedly.



Your selected mode is marked by **▼**, **↓**, **↓↓** above the playmodes, **album**, **shuffle**, **repeat all**.

2 Playback starts in the selected mode after 2 seconds.

3 To return to normal playback, press MODE repeatedly until **repeat** and **shuffle** disappear.

### Storing the last position played-RESUME

You can store the last position played. When restarting, playback will continue from where you have stopped.

- 1 Switch the slider to RESUME during playback to activate **resume**.  
→ **▼** appears above **resume**.
- 2 Press **■** whenever you want to stop playback.
- 3 Press **▶II** to resume playback.  
→ Playback continues from where you have stopped.
- To deactivate RESUME, switch the slider to OFF.  
→ **▼** disappears from **resume**.

### Locking all buttons-HOLD

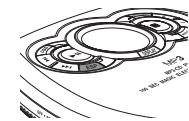
You can lock all buttons of the set. When you press any key, no action will be executed then.

- Switch the slider to HOLD to activate **hold**.  
→ **▼** appears above **resume** and **hold** is displayed. All buttons are locked. When pressing any key, **Hold** is displayed.
- To deactivate HOLD, switch the slider to OFF.  
→ **▼** disappears from **resume** or **hold**.

## FEATURES / ACCESSORIES

### ESP and powersaving

With a conventional portable disc player the music may stop while you are jogging for example. The **ELECTRONIC SKIP PROTECTION** protects this set against loss of sound caused by light vibrations or shocks. Continuous playback is ensured. **ESP does not protect the set against damage caused by dropping** !



• Press ESP repeatedly during playback to select either:

- **ESP** is shown and ESP is switched on.
- **ESP** disappears. Powersaving is switched on.



### Belt Clip

- 1 Align the belt clip as indicated in the illustration and press on the clip to insert its shaped pin into the hole in the set.
- 2 Turn the clip clockwise as indicated to lock the belt clip to the set.
- To detach, gently lift the belt clip at the indicated end and turn it counter-clockwise.



### In-car connections (supplied or optionally available)

Only use the AY 3545 or AY 3548 car voltage converter (4.5 V DC, positive pole to the centre pin) and the AY 3501 car cassette adapter. Any other product may damage the set.

- 1 Put the set on a horizontal, vibration-free and stable surface. Make sure it is in a safe place, where the set is neither a danger nor an obstacle to the driver and the passengers.
- 2 Plug the voltage converter into the cigarette lighter socket (**only for 12 V car battery, negative grounding**), then connect the wired end with 4.5V DC input socket on the set.
- 3 If necessary, clean the cigarette lighter socket to obtain a good electrical contact.
- 4 Turn down the volume and connect the adapter cassette plug to LINE OUT/ on the set.
- 5 Carefully insert the adapter cassette into the car radio's cassette compartment.
- 6 Make sure the cord does not hinder your driving.
- 7 Start playback on the set and adjust the sound with the car radio controls.

• **Always remove the voltage converter from the cigarette lighter socket when the set is not in use.**



*Note: If your car radio has a LINE IN socket, it is better to connect the set to this jack instead of using the cassette adapter. Connect LINE OUT / of the set with the LINE IN jack of your car radio with an appropriate cable.*

# TROUBLESHOOTING

## Troubleshooting

**WARNING:** Under no circumstances should you try to repair the set yourself as this will invalidate the warranty. If a fault occurs, first check the points listed, before taking the unit for repair. If you are unable to solve a problem by following these hints, consult your dealer or service center.

Problem	Solution
<b>No power, playback does not start</b>	<ul style="list-style-type: none"><li>– Insert the batteries correctly.</li><li>– Replace the batteries.</li><li>– Connect the mains adapter securely.</li></ul>
<b>Hold indication and/or no reaction to controls</b>	<ul style="list-style-type: none"><li>– Deactivate HOLD.</li><li>– Disconnect the set from the power supply or take out the batteries for a few seconds.</li></ul>
<b>No sound or bad sound quality</b>	<ul style="list-style-type: none"><li>– Press <b>▶II</b> to resume playback.</li><li>– Adjust the volume.</li><li>– Check and clean the connections.</li><li>– Keep this set away from active mobile phones or strong magnetic fields.</li></ul>
<b>Insert CD or No audio file indication</b>	<ul style="list-style-type: none"><li>– Insert a disc, label upwards.</li><li>– Clean or replace the disc.</li><li>– Wait until the steamed up lens has cleared.</li><li>– Make sure you have inserted an audio disc or an MP3-CD.</li></ul>

Problem	Solution
<b>Disc error indication</b>	<ul style="list-style-type: none"><li>– Make sure the inserted CDR or CDRW is recorded correctly.</li></ul>
<b>Music file is not played</b>	<ul style="list-style-type: none"><li>– Make sure that the file names of the MP3 files end with .mp3</li></ul>
<b>Missing directories on MP3-CD</b>	<ul style="list-style-type: none"><li>– Make sure the total number of files and albums on your MP3-CD does not exceed 400.</li><li>– Only albums with MP3 files are shown.</li></ul>
<b>The disc skips tracks</b>	<ul style="list-style-type: none"><li>– Clean or replace the disc.</li><li>– Make sure <b>repeat, repeat album, shuffle</b> or <b>prog</b> are not selected.</li></ul>
<b>Music skips or popping sound when playing an MP3 file</b>	<ul style="list-style-type: none"><li>– Play the music file on your computer. If the problem persists, encode the audio track again and make a new CD-ROM.</li></ul>
<b>Oops indication</b>	<ul style="list-style-type: none"><li>– Switch ESP on.</li><li>– Damaged disc.</li></ul>
<b>In-car use: No power, playback does not start</b>	<ul style="list-style-type: none"><li>– Clean the cigarette lighter jack</li><li>– Switch on the ignition of your car.</li></ul>
<b>In-car use: No sound or bad sound quality</b>	<ul style="list-style-type: none"><li>– Insert the cassette adapter correctly.</li><li>– Change the autoreverse direction of your car cassette player.</li><li>– Let the set adjust to the temperature in the car.</li></ul>

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**CLASS 1  
LASER PRODUCT**



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